

Solve the following equations. Show work on both sides of the equation.

EXAMPLES

1. $-3x + 15 = -9$

2. $6x - 8 = -2x + 48$

3. $5(x + 8) = -3(x + 16)$

4. $-10 = 6 + 2(x - 1)$

EXERCISES

5. $-2x + 18 = 48$

6. $4(x - 3) = 60$

7. $11x - 6 = 8x + 15$

8. $x + 25 = -4x + 75$

9. $6(x + 4) = 2(x + 16)$

10. $4(x + 3) = -2(x - 9)$

11. $5(x-6) = 2x - 24$

12. $27 = 9 + 3(x+2)$

13. $4 + 5(x-3) = 29$

14. $-7 = -1 + 6(x+2)$

15. $2 + 6(x+1) = 22 + 2(x-3)$

16. $8 + 5(x+2) = 3x + 26$

The data in the following table shows the attendance at the performances of a play.

Performance Number	Attendance
2	100
6	260

17. Find the slope of the line that connects the two data points.

18. Write an equation in point-slope form for the line.

19. At what performance number can we expect the attendance to equal 380 (A full house)?